



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/477,608	01/04/2000	WOLFGANG HILL	1P-23	9478

7590 11/14/2003
WOLFGANG HILL
ORTENBERGSTR 3
KARLSRUHE, 76135
GERMANY

EXAMINER

ADDISON, KAREN B

ART UNIT	PAPER NUMBER
----------	--------------

2834

DATE MAILED: 11/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/477,608

Applicant(s)

HILL, WOLFGANG

Examiner

Karen B Addison

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the corresponding address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 February 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7 is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Allowable Subject Matter

Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 is rejected under 35 U.S.C. 102(b) as being anticipated by

Rosenberry (4392072).

Rosenberry discloses in fig.1-3 an stator for an electric motor comprising: a non grain oriented stator (2) having a soft magnetic body (resin) and teeth (cobalt alloy) that are disposed towards an air gap possessing inhomogeneous properties in regards to the magnetic flux. Rosenberry also discloses, a region facing the air gap consisting of a material having higher magnetizability than the remaining region of the soft magnetic body (2) disposed more distant from the air gap, belonging to the same magnetic circuit and the and a soft magnetic body possessing in total, a larger cross section in direction of the flux than the sum of said teeth (grain oriented) that are disposed toward said air gap. It is inherent that the electric motor consist of a rotor and a stator therefore the motor will have

at least one magnetic circuit and at least two structural groups that are moveable against each other (rotor and stator) and separated by an air gap in regards to the magnetic flux.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-6 rejected under 35 U.S.C. 103(a) as being unpatentable over Rosenberry in view of Fanning (606974A1) and Further view of Kilbourne (2236291).

Rosenberry substantially discloses the claim invention. However, Rosenberry does not disclose the soft magnetic body stacked in a tangential direction and the thickness of the sheet increases as the radius increases and the magnetic body consists of electric sheet of variable thickness and one spooled pole segment and two non-spoiled half pole segments.

Fanning discloses in fig.6 a Laminated stator comprising: soft magnetic body stacked in a tangential direction and the thickness of the sheet increases as the radius increases and the magnetic body consists of electric sheets having a variable thickness for the purpose of providing a substantially continuous path circumferentially around the inner core.

Kilbourne discloses a dynamoelectric Machine in fig.1 comprising a stator (10) consisting of inhomogeneous properties having at least one spooled pole segment (13), two non- spooled pole segments (11,12) and a half pole segments abutting at least one pole segment in the yoke area to each is assign winding (located at the end of the ring) in order improve the construction of the laminated poles. Therefore, it would have been obvious to one having ordinary skilled in the art at the time the invention was made to modify the electric machine of Rosenberry with the teaching of the variable sheet thickness of Flanning and Kilbourne teaching of nonspool and spooled poles for the purpose of obtaining high magnetizability.

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Application/Control Number: 09/477,608
Art Unit: 2834

Page 5

KBA
10/31/03

Thomas M. DeGroot
i